

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (currently amended)      A method for managing a first component of a wireless network using a second component of the wireless network, the method comprising:

when a configuration recovery mode is selected manually via a physical interface of the second component without accessing a network interface of the second component, sending a configuration signal from the second component to the first component, wherein the configuration signal specifies that the first component is to perform a reconfiguration, and

when an image recovery mode is selected manually at the second component without accessing the network interface of the second component, sending an image recovery signal from the second component to the first component, wherein the image recovery signal specifies that the first component is to initiate an operation for downloading new software to the first component,

wherein the manual selection of the configuration recovery mode is performed by pressing a recovery button for a first time period and the manual selection of the image recovery mode is performed by pressing a recovery button for a second time period which differs from the first time period.

2. (original)      A method as recited in claim 1, further comprising:

when the configuration signal is sent by the second component to the first component, determining whether the first component has successfully completed the reconfiguration and displaying at the second component an indication as to whether the first component has successfully completed the reconfiguration.

3. (original)      A method as recited in claim 1, wherein the reconfiguration includes loading a factory default configuration into the first component.

4. (cancelled)

5. (currently amended) A method as recited in ~~claim 4~~ claim 1, further comprising:

when the image recovery signal is sent by the second component to the first component, determining whether the first component has successfully initiated the new software download operation and displaying at the second component an indication as to whether the first component has successfully initiated the new software download operation.

6. (currently amended) A method as recited in ~~claim 4~~ claim 1, wherein the new software download operation includes downloading new software from the second component to the first component.

7. (cancelled)

8. (currently amended) A method as recited in ~~claim 7~~ claim 1, wherein the configuration signal is a periodic signal sent for a time period corresponding to the pressing of the recovery button for the first time period and the image recovery signal is a periodic signal sent for a time period corresponding to the pressing of the recovery button for the second time period.

9. (currently amended) A method as recited in ~~claim 4~~ claim 1, wherein the configuration recovery mode and image recovery mode may only be manually selected during a powering up of the second component.

10. (currently amended) A method ~~as recited in claim 9, further comprising:~~ for managing a first component of a wireless network using a second component of the wireless network, the method comprising:

when a configuration recovery mode is selected manually via a physical interface of the second component without accessing a network interface of the second component, sending a configuration signal from the second component to the first component, wherein the configuration signal specifies that the first component is to perform a reconfiguration;

when an image recovery mode is selected manually at the second component without accessing the network interface of the second component, sending an image recovery signal from the second component to the first component, wherein the image recovery signal specifies that the first component is to initiate an operation for downloading new software to the first component, wherein the configuration recovery mode and image recovery mode may only be manually selected during a powering up of the second component.;

upon powering up the second component, disabling power from being injected from the second component to the first component and sending a discovery signal to the first component;

after the discovery signal is returned by the first component to the second component, injecting power from the second component into the first component;

after the discovery signal is sent to the first component and when the discovery signal is not returned by the first component, continuing to disable power to the first component;

wherein the configuration signal is sent by maintaining the discovery signal for a first time period after injecting power into the first component and the image recovery signal is sent by maintaining the discovery signal for a second time period after injecting power into the first component; and

when power has been injected into the second component and (i) when the configuration recovery mode and the image recovery mode are not selected manually or (ii) after the configuration signal is sent in the form of the discovery signal, removing the discovery signal from being sent to the first component,

11. (original) A method as recited in claim 10, wherein the first and second time periods for maintaining the discovery signal correspond to a time for which the configuration mode or image recovery mode is manually selected, respectively, the method further comprising:

after the discovery signal is removed, sending a second discovery signal from the second component to the first component which is not detectable by the first component; and

when the second discovery signal is not returned to the second component, displaying at the second component an indication that the first component has completed its initialization procedures.

12. (original) A method as recited in claim 11, further comprising:

after injecting power into the first component, at the second component monitoring the connection between the first and second component; and

when a failure is detected in the connection between the first and second components, disabling power injection from the second component to the first component.

13. (original) A method as recited in claim 12, further comprising displaying at the second component an indication that power to the first component has been disabled.

14-15. (cancelled)

16. (currently amended) A first apparatus operable to manage a second apparatus of a wireless network, the computer system comprising:

a physical interface;

one or more processors;

one or more memory, wherein at least one of the processors or memory is adapted for:

when a configuration recovery mode is selected manually via the physical interface of the first apparatus without accessing a network interface of the first apparatus, sending a configuration signal from the first apparatus to the second apparatus, wherein the configuration signal specifies that the second apparatus is to perform a reconfiguration; and

when an image recovery mode is selected manually at the first apparatus without accessing the network interface of the first apparatus, sending an image recovery signal from the first apparatus to the second apparatus, wherein the image recovery signal specifies that the second apparatus is to initiate an operation for downloading new software to the second apparatus.

wherein the manual selection of the configuration recovery mode is performed by pressing a recovery button for a first time period and the manual selection of the image recovery mode is performed by pressing a recovery button for a second time period which differs from the first time period.

17. (previously presented) A first apparatus as recited in claim 16, wherein the at least one of the processors or memory is further adapted for:

when the configuration signal is sent by the first apparatus to the second apparatus, determining whether the second apparatus has successfully completed the reconfiguration and displaying at the first apparatus an indication as to whether the second apparatus has successfully completed the reconfiguration.

18. (cancelled)

19. (currently amended) A first apparatus as recited in ~~claim 18~~ claim 16, wherein the at least one of the processors or memory is further adapted for:

when the image recovery signal is sent by the first apparatus to the second apparatus, determining whether the second apparatus has successfully initiated the new software download operation and displaying at the first apparatus an indication as to whether the second apparatus has successfully initiated the new software download operation.

20-21. (cancelled)

22. (currently amended) A first apparatus ~~as recited in claim 21~~, operable to manage a second apparatus of a wireless network, the computer system comprising:

a physical interface;

one or more processors;

one or more memory, wherein at least one of the processors or memory is adapted for:

when a configuration recovery mode is selected manually via the physical interface of the first apparatus without accessing a network interface of the first apparatus, sending a configuration signal from the first apparatus to the second apparatus, wherein the configuration signal specifies that the second apparatus is to perform a reconfiguration;

when an image recovery mode is selected manually at the first apparatus without accessing the network interface of the first apparatus, sending an image recovery signal from the first apparatus to the second apparatus, wherein the image recovery signal specifies that the second apparatus is to initiate an operation for downloading new software to the second apparatus, wherein the configuration recovery mode and image recovery mode may only be manually selected during a powering up of the first apparatus;

~~wherein the at least one of the processors or memory is further adapted for:~~

upon powering up the first apparatus, disabling power from being injected from the first apparatus to the second apparatus and sending a discovery signal to the second apparatus;

after the discovery signal is returned by the second apparatus to the first apparatus, injecting power from the first apparatus into the second apparatus;

after the discovery signal is sent to the second apparatus and when the discovery signal is not returned by the second apparatus, continuing to disable power to the second apparatus;

wherein the configuration signal is sent by maintaining the discovery signal for a first time period after injecting power into the second apparatus and the image recovery signal is sent by maintaining the discovery signal for a second time period after injecting power into the second apparatus; and

when power has been injected into the second apparatus and (i) when the configuration recovery mode and the image recovery mode are not selected manually or (ii) after the configuration signal is sent in the form of the discovery signal, removing the discovery signal from being sent to the second apparatus;

23. (previously presented) A first apparatus as recited in claim 22, wherein the first and second time periods for maintaining the discovery signal correspond to a time for which the configuration mode or image recovery mode is manually selected, respectively, wherein the at least one of the processors or memory is further adapted for:

after the discovery signal is removed, sending a second discovery signal from the first apparatus to the second apparatus which is not detectable by the second apparatus; and

when the second discovery signal is not returned to the first apparatus, displaying at the first apparatus an indication that the second apparatus has completed its initialization procedures.

24. (previously presented) A first apparatus as recited in claim 23, wherein the at least one of the processors or memory is further adapted for:

after injecting power into the second apparatus, at the first apparatus monitoring the connection between the first and second apparatus; and

when a failure is detected in the connection between the first and second apparatus disabling power injection from the first apparatus to the second apparatus.

25. (previously presented) A first apparatus as recited in claim 24, wherein the at least one of the processors or memory is further adapted for displaying at the first apparatus an indication that power to the second apparatus has been disabled.

26. (previously presented) A first apparatus as recited in claim 16, wherein the at least one of the processors or memory is further adapted for running Ethernet signals on outdoor rated coaxial cables coupled to the first apparatus, wherein the outdoor rated coaxial cables are also coupled to the second apparatus.

27. (previously presented) A first apparatus as recited in claim 26, wherein the at least one of the processors or memory is further adapted for converting Ethernet signals coming from

an indoor network device coupled to the first apparatus through a Cat5 into Ethernet signals on outdoor rated coaxial cables.

28. (original) A first apparatus as recited in claims 27, wherein the outdoor rated coaxial cables are 75 ohm CaTV type coax cables.

29. (previously presented) A first apparatus as recited in claim 28, wherein the at least one of the processors or memory is further adapted for transmitting and receiving data on the outdoor rated coaxial cables at a rate selected from a group consisting of 10 Mbps, 100 Mbps, 1 Gbps, and 10 Gbps.

30. (currently amended) A computer program product for managing a first component of a wireless network using a second component of the wireless network, the computer program product comprising:

at least one computer readable medium;

computer program instructions stored within the at least one computer readable product configured for:

when a configuration recovery mode is selected manually via a physical interface of the second component without accessing a network interface of the second component, sending a configuration signal from the second component to the first component, wherein the configuration signal specifies that the first component is to perform a reconfiguration; and

when an image recovery mode is selected manually via the physical interface of the second component without accessing the network interface of the second component, sending an image recovery signal from the second component to the first component, wherein the image recovery signal specifies that the first component is to initiate an operation for downloading new software to the first component,



wherein the manual selection of the configuration recovery mode is performed by pressing a recovery button for a first time period and the manual selection of the image recovery mode is performed by pressing a recovery button for a second time period which differs from the first time period.

31. (original) A computer program product as recited in claim 30, the computer program instructions stored within the at least one computer readable product being further configured for:

when the configuration signal is sent by the second component to the first component, determining whether the first component has successfully completed the reconfiguration and displaying at the second component an indication as to whether the first component has successfully completed the reconfiguration.

32. (original) A computer program product as recited in claim 30, wherein the reconfiguration includes loading a factory default configuration into the first component.

33. (cancelled)

34. (currently amended) A method as recited in ~~claim 33~~ claim 30, the computer program instructions stored within the at least one computer readable product being further configured for:

when the image recovery signal is sent by the second component to the first component, determining whether the first component has successfully initiated the new software download operation and displaying at the second component an indication as to whether the first component has successfully initiated the new software download operation.

35. (currently amended) A computer program product as recited in ~~claim 33~~ claim 30, wherein the new software download operation includes downloading new software from the second component to the first component.

36. (cancelled)

37. (currently amended) A computer program product as recited in ~~claim 36~~ claim 30, wherein the configuration signal is a periodic signal sent for a time period corresponding to the pressing of the recovery button for the first time period and the image recovery signal is a periodic signal sent for a time period corresponding to the pressing of the recovery button for the second time period.

38. (cancelled)

39. (currently amended) A computer program product ~~as recited in claim 38, the computer program instructions stored within the at least one computer readable product being further configured for:~~ A computer program product for managing a first component of a wireless network using a second component of the wireless network, the computer program product comprising:

at least one computer readable medium;

computer program instructions stored within the at least one computer readable product configured for:

when a configuration recovery mode is selected manually via a physical interface of the second component without accessing a network interface of the second component, sending a configuration signal from the second component to the first component, wherein the configuration signal specifies that the first component is to perform a reconfiguration; and

when an image recovery mode is selected manually via the physical interface of the second component without accessing the network interface of the second component, sending an image recovery signal from the second component to the first component, wherein the image recovery signal specifies that the first component is to initiate an operation for downloading new software to the first component,

wherein the configuration recovery mode and image recovery mode may only be manually selected during a powering up of the second component;

upon powering up the second component, disabling power from being injected from the second component to the first component and sending a discovery signal to the first component;

after the discovery signal is returned by the first component to the second component, injecting power from the second component into the first component;

after the discovery signal is sent to the first component and when the discovery signal is not returned by the first component, continuing to disable power to the first component;

wherein the configuration signal is sent by maintaining the discovery signal for a first time period after injecting power into the first component and the image recovery signal is sent by maintaining the discovery signal for a second time period after injecting power into the first component; and

when power has been injected into the second component and (i) when the configuration recovery mode and the image recovery mode are not selected manually or (ii) after the configuration signal is sent in the form of the discovery signal, removing the discovery signal from being sent to the first component;

40. (original) A computer program product as recited in claim 39, wherein the first and second time periods for maintaining the discovery signal correspond to a time for which the configuration mode or image recovery mode is manually selected, respectively, the computer program instructions stored within the at least one computer readable product being further configured for:

after the discovery signal is removed, sending a second discovery signal from the second component to the first component which is not detectable by the first component; and

when the second discovery signal is not returned to the second component, displaying at the second component an indication that the first component has completed its initialization procedures.

41. (original) A computer program product as recited in claim 40, the computer program instructions stored within the at least one computer readable product being further configured for:

after injecting power into the first component, at the second component monitoring the connection between the first and second component; and

when a failure is detected in the connection between the first and second components, disabling power injection from the second component to the first component.

42. (original) A computer program product as recited in claim 41, further comprising displaying at the second component an indication that power to the first component has been disabled.

43-46. (cancelled)

47. (currently amended) An apparatus for managing a first component of a wireless network using a second component of the wireless network, comprising:

means for when a configuration recovery mode is selected manually via a physical interface at the second component without accessing a network interface of the second component, sending a configuration signal from the second component to the first component, wherein the configuration signal specifies that the first component is to perform a reconfiguration;

means for when an image recovery mode is selected manually at the second component without accessing the network interface of the second component, sending an image recovery signal from the second component to the first component, wherein the image recovery signal specifies that the first component is to initiate an operation for downloading new software to the first component,

wherein the manual selection of the configuration recovery mode is performed by pressing a recovery button for a first time period and the manual selection of the image recovery

mode is performed by pressing a recovery button for a second time period which differs from the first time period.

48. (cancelled)